

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): Device for curing a coating of an object, the coating consisting of a material that cures under electromagnetic radiation, the device including

- a) at least one emitter generating electromagnetic radiation; and,
- b) a conveying system which conveys the object into the vicinity of the emitter and away from it again;

wherein the conveying system comprising a suspended carriage which can be moved in a translatory manner along at least one travel way and is suspended over the at least one emitter, and in that at least two downwardly extending suspension supports for suspension of the object are arranged one behind the other in the longitudinal direction on a bogie truck of the suspended carriage, the length of which supports can be changed independently of each other with the aid of a motor,

wherein the device comprises a controller via which the length of the suspension supports can be automatically adapted to the vertical dimensions of the object, and,

further wherein the length of the suspension supports can be changed by the controller in such a way that, during a conveying movement of the object past the at least one emitter, the quantity of electromagnetic radiation striking the material per unit of area and the intensity thereof do not fall below respectively predeterminable thresholds required for curing.

2. (previously presented): Device according to claim 1, wherein at least one of the suspension supports comprises two belts or chains which can be individually wound with the aid of a motor and which act on either side of the object at a supporting structure receiving the object.

3. (previously presented): Device according to claim 1, wherein the conveying system comprises a plurality of suspended carriages which each comprise a separate driving unit for a translatory movement along the travel way.

4. (previously presented): Device according to claim 1, further comprising a container that is open at the top and arranged below the travel way, and into the interior of which the object can be introduced by an extension of the length of the suspension support and of which the interior can be subjected to electromagnetic radiation from the at least one emitter.
5. (previously presented): Device according to claim 4, wherein at least one emitter is fitted in a wall or the base of the container.
6. (previously presented): Device according to claim 5, wherein at least one emitter is fitted in the opposing side walls extending parallel to the translational movement of the objects and in at least one of the two end walls extending perpendicular to the translational movement of the objects or in the base of the container.
7. (previously presented): Device according to claim 5, wherein a large number of emitters is arranged on all walls and in the base of the container.
8. (previously presented): Device according to claim 1, wherein a plurality of emitters are provided in a U-shaped arrangement with two substantially vertical legs and a substantially horizontal base.
9. (previously presented): Device according to claim 8, wherein the arrangement of the emitters at the substantially vertical legs is adapted to the course of the lateral surfaces of the object.
10. (previously presented): Device according to claim 8, wherein the arrangement of emitters at the substantially horizontal base is adapted to the course of the downwardly oriented surface of the object.
11. (previously presented): Device according to claim 4, wherein a protective gas can be supplied to the interior of the container.
12. (previously presented): Device according to claim 11, wherein the protective gas is heavier than air.
13. (previously presented): Device according to claim 11, further comprising an inlet for the protective gas in the immediate vicinity of the at least one emitter.

14. (previously presented): Device according to claim 1, wherein at least one emitter on the side remote from the object is associated with a moving reflector.
15. (previously presented): Device according to claim 4, wherein the container is provided on at least one inner surface with a reflective layer.
16. (previously presented): Device according to claim 15, wherein the layer is uneven.
17. (previously presented): Device according to claim 14, wherein the layer consists of aluminium foil.
18. (previously presented): Device according to claim 1, further comprising a cabin housing which prevents the uncontrolled escape of gases and electromagnetic radiation.
19. (previously presented): Device according to claim 18, wherein a respective sluice is provided for the suspended carriage at the inlet and outlet of the cabin housing.
20. (previously presented): Device according to claim 18, wherein an apparatus is provided for removing oxygen from the atmosphere within the cabin housing.
21. (previously presented): Device according to claim 20, wherein the apparatus for removing oxygen comprises a catalyst for catalytically binding the oxygen.
22. (previously presented): Device according to claim 20, wherein for removing oxygen, the apparatus comprises a filter for absorbing oxygen.
23. (previously presented): Device according to claim 20, wherein for removing oxygen, the apparatus comprises a filter for adsorbing oxygen.
24. (previously presented): Device according to claim 1, further comprising a pre-heating zone for removing the solvent from the material of the coating.
25. (previously presented): Device according to claim 1, further comprising a pre-heating zone for initial gelling of powdery material.
26. (canceled)

27. (canceled)

28. (currently amended): Device according to claim 1 [[27]], wherein the length of the suspension supports can be changed by the controller in such a way that, during a conveying movement of the object past the at least one emitter, the spacing in the vertical direction between the object and the at least one emitter is at least approximately constant.

29. (currently amended): Device according to claim 1 [[27]], wherein the controller comprises a memory for storing three-dimensional shape data of the object.

30. (previously presented): Device according to claim 1, wherein the device comprises a measuring station upstream of the at least one emitter in the conveying direction, by means of which station the three-dimensional shape data of the object can be detected.

31. (previously presented): Device according to claim 30, wherein the measuring station comprises at least one light barrier.

32. (previously presented): Device according to claim 31, wherein the measuring station comprises at least one optical sampler by which the object can be sampled in a scanner-like manner in previously presented): Device according to claim 32, wherein the optical sampler comprises an infrared light source.

34. (previously presented): Device according to claim 30, wherein the measuring station comprises a video camera and an apparatus for digital image recognition.

35. (previously presented): Device according to claim 1, further comprising a post-heating zone to complete curing.

36. (currently amended): Device according to claim 11, wherein within the inlet-side sluice, an inlet for protective gas is arranged in such a way that a cavity in the object is flushed with a protective gas.

37. (previously presented): Device according to claim 1, wherein the electromagnetic radiation is UV light.

38. (previously presented): Device according to claim 1, wherein the electromagnetic radiation is IR radiation.

39. (new): Device according to claim 1, wherein the object is a vehicle body.